



# CanSat Summer Camp Program

*Build and launch a self-made satellite — It's a "blast"!*

July 9-14 (Launch date is July 14)  
Westfield High School 4700 Stonecroft Blvd  
Chantilly, VA 20151  
10am - 3pm  
Grades 9-12

**This program is all hands-on learning. Learn how satellites are built, launched, and operated. Build a "CanSat" satellite and launch it on a high powered rocket. Learn how to program the satellite to collect sensor data and transmit it to the ground station.**

## Program Overview:

- Learn about satellite orbits, simulate orbits on the computer
- Learn what makes up a satellite, how they are built, tested and launched
- Build a "CanSat" satellite with sensors, processor, and radio transmitter
- Program the CanSat to collect sensor data and transmit telemetry
- Test the CanSat in a vacuum chamber
- Build a high powered rocket to launch the CanSat
- Set up a ground station to collect and process the data
- Tour the Udvar-Hazy Museum (*no transportation provided, will need parent car-pooling volunteers*)
- **Launch the CanSat!**



**Class  
limited to  
20 students!**

### Launch site information:

Great Meadow  
The Plains, VA (*no transportation provided  
– will need parent car-pooling volunteers*)  
[www.novaar.org](http://www.novaar.org)

**Student Name:** \_\_\_\_\_

**Grade:** \_\_\_\_\_ **School:** \_\_\_\_\_

**Parent or Guardian Name:** \_\_\_\_\_

**Home Phone:** \_\_\_\_\_ **Work Phone:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City:** \_\_\_\_\_ **State:** \_\_\_\_\_ **ZIP:** \_\_\_\_\_

**Email Contact:** \_\_\_\_\_

**Program Fee:** \$150 \_\_\_\_\_ **Shirt Size:** **S** \_\_\_ **M** \_\_\_ **L** \_\_\_ **XL** \_\_\_

**Send To:** Federation of Galaxy Explorers, 3916 Bokel Dr., Chantilly, VA 20151  
**Application deadline is June 9, 2007.** No refunds due to costs of materials